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NEWS 3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 6	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 11	JUL 28	CA/CAplus patent coverage enhanced
NEWS 12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 14	JUL 28	STN Viewer performance improved
NEWS 15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 16	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 18	AUG 15	CAplus currency for Korean patents enhanced
NEWS 19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 21	SEP 25	CA/CAplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS 22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and and Korean patents enhanced
NEWS 23	SEP 29	IFICLS enhanced with new super search field
NEWS 24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS 25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS 26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS 27	OCT 07	Multiple databases enhanced for more flexible patent

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FILE 'HOME' ENTERED AT 10:36:55 ON 20 OCT 2008

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'CAPLUS' ENTERED AT 10:37:20 ON 20 OCT 2008
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FILE COVERS 1907 - 20 Oct 2008 VOL 149 ISS 17
FILE LAST UPDATED: 19 Oct 2008 (20081019/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> s injections
L1 130430 INJECTIONS

=> s l1 and pentaprezole
0 PENTAPREZOLE
L2 0 L1 AND PENTAPREZOLE

```
=> s l1 and pentoprazole
             0 PENTOPRAZOLE
L3           0 L1 AND PENTOPRAZOLE

=> l1 and "butyl rubber stoppers"
L1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l1 and "butyl rubber stoppers"
        297379 "BUTYL"
            52 "BUTYLS"
        297408 "BUTYL"
                  ("BUTYL" OR "BUTYLS")
        387865 "RUBBER"
        162736 "RUBBERS"
        474725 "RUBBER"
                  ("RUBBER" OR "RUBBERS")
          3806 "STOPPERS"
            27 "BUTYL RUBBER STOPPERS"
                  ("BUTYL"(W)"RUBBER"(W)"STOPPERS")
L4           3 L1 AND "BUTYL RUBBER STOPPERS"

=> d l4 1-3 ibib ab

L4   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2006:936430  CAPLUS
DOCUMENT NUMBER:         145:321692
TITLE:                   Method for manufacturing aseptic mixed powder
                         injection containing cefpiramide
INVENTOR(S):             Zhang, Qinghua
PATENT ASSIGNEE(S):      Peop. Rep. China
SOURCE:                  Faming Zhuanli Shenqing Gongkai Shuomingshu, 4pp.
                         CODEN: CNXXEV
DOCUMENT TYPE:           Patent
LANGUAGE:                Chinese
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
     CN 1823783           A     20060830    CN 2005-10031272       20050221
PRIORITY APPLN. INFO.:                      CN 2005-10031272       20050221
AB   The title method comprises the following steps: (1) pulverizing aseptic
     cefpiramide and aseptic sodium carbonate, and screening with a 100-mesh
     sieve in a clean zone with cleanliness class 100 (the relative humidity is
     < 60%), (2) adding aseptic cefpiramide to 20 mL vials (1.0 g of anhydride
     per vial) in a clean zone with cleanliness class 100 (the relative
     humidity is < 60%), (3) adding sodium carbonate to the vials (0.2 g of
     anhydride per vial), and (4) packaging with butyl rubber
     stoppers and flip-tear off caps to obtain the final product.  The
     method has the advantages of high yield, high product purity, and low drug
     degradation rate.

L4   ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2002:590447  CAPLUS
DOCUMENT NUMBER:         137:114512
TITLE:                   Process for the preparation of composite
                         pharmaceutical formulations containing pefloxacin
INVENTOR(S):             Khorakiwala, Habil
```

PATENT ASSIGNEE(S): Wockhardt Limited, India
SOURCE: Indian, 9 pp.
CODEN: INXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 172680	A1	19931106	IN 1992-BO369	19921124
PRIORITY APPLN. INFO.:			IN 1992-BO369	19921124

AB A process for the preparation of a composite pharmaceutical formulation containing pefloxacin suitable for i.v. injection comprises dissolving pefloxacin mesylate dihydrate in water and adding thereto dextrose (anhydrous) at 5-30°. Propylene glycol is added to give a stable preparation, and sodium metabisulfite and/or disodium ethylenediaminetetracetate is added to give a clear and colorless formulation. Nitrogen is bubbled through the mixture which is then autoclaved at 100-130° to sterilize the mixture and the mixture filled in USP bottles. Pefloxacin mesylate dihydrate 559 mg (= 400 mg pefloxacin) was dissolved in 50 mL water for injection, followed by 5 g dextrose. Propylene glycol (0.5 mL) was added and the solution was stirred for 30 min. It was filtered and filled a in sterilized bottle, plugged with bromobutyl plug and sealed with aluminum seal. The bottle was heated in an autoclave at 121° for 45 min and cooled. The solution was clear with a pH of 3.2 and the temperature of the solution was kept at 10°.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:535825 CAPLUS
DOCUMENT NUMBER: 89:135825
ORIGINAL REFERENCE NO.: 89:20927a,20930a
TITLE: Butyl rubber stoppers for sealing bottles containing blood substitutes and injection solutions
AUTHOR(S): Kosyreva, N. S.; Loginova, L. I.; Shenfil, L. Z.; Bovenko, V. N.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Farm., Moscow, USSR
SOURCE: Farmatsiya (Moscow, Russian Federation) (1978), (4), 49-51
CODEN: FRMTAL; ISSN: 0367-3014
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Newly developed butyl rubber for injections and blood substitutes when left in contact with water for injections or physiol. saline at 120° for 30 min showed no Zn, Pb, Ba, etc., in the extract It was superior to the other rubbers in its oxidation indicators and did not lower the pH of the solns. (contrary to the earlier rubbers). It showed no toxicity, bactericidal properties. and hemolytic action. Storage of various solns. in contact with the stoppers made from this rubber at elevated temps. led to the formation of volatile sulfides which imparted H_2S odor to the prepns. However, storage at room temperature for 18 mo gave no such odor. Stickiness associated with these butyl rubbers was reduced by selecting high-mol. weight butyl rubber and siliconization.

=> FIL STNGUIDE
COST IN U.S. DOLLARS SINCE FILE TOTAL

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                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   23.37      23.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -2.40      -2.40

FILE 'STNGUIDE' ENTERED AT 10:39:52 ON 20 OCT 2008
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Oct 17, 2008 (20081017/UP).

=> s "butyl rubber stoppers"
             0 "BUTYL"
             3 "RUBBER"
             1 "RUBBERS"
             4 "RUBBER"
                 ("RUBBER" OR "RUBBERS")
             0 "STOPPERS"
L5           0 "BUTYL RUBBER STOPPERS"
                 ("BUTYL"(W)"RUBBER"(W)"STOPPERS")

=> s l1 and stoppers
             0 INJECTIONS
             0 STOPPERS
L6           0 L1 AND STOPPERS

=> file caplus
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.12      23.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -2.40

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FILE COVERS 1907 - 20 Oct 2008 VOL 149 ISS 17
FILE LAST UPDATED: 19 Oct 2008 (20081019/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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They are available for your review at:

http://www.cas.org/legal/infopolicy.html

```
=> s "butyl rubber stoppers"
        297379 "BUTYL"
            52 "BUTYLS"
        297408 "BUTYL"
                 ("BUTYL" OR "BUTYLS")
        387865 "RUBBER"
        162736 "RUBBERS"
        474725 "RUBBER"
                 ("RUBBER" OR "RUBBERS")
          3806 "STOPPERS"
L7          27 "BUTYL RUBBER STOPPERS"
                 ("BUTYL"(W)"RUBBER"(W)"STOPPERS")

=> d l7 1-27 ibib ab

L7   ANSWER 1 OF 27  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2006:936430  CAPLUS
DOCUMENT NUMBER:         145:321692
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                         injection containing cefpiramide
INVENTOR(S):             Zhang, Qinghua
PATENT ASSIGNEE(S):      Peop. Rep. China
SOURCE:                  Faming Zhuanli Shenqing Gongkai Shuomingshu, 4pp.
                         CODEN: CNXXEV
DOCUMENT TYPE:           Patent
LANGUAGE:                Chinese
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     CN 1823783           A     20060830    CN 2005-10031272       20050221
PRIORITY APPLN. INFO.:                      CN 2005-10031272       20050221
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     sieve in a clean zone with cleanliness class 100 (the relative humidity is
     < 60%), (2) adding aseptic cefpiramide to 20 mL vials (1.0 g of anhydride
     per vial) in a clean zone with cleanliness class 100 (the relative
     humidity is < 60%), (3) adding sodium carbonate to the vials (0.2 g of
     anhydride per vial), and (4) packaging with butyl rubber
     stoppers and flip-tear off caps to obtain the final product.  The
     method has the advantages of high yield, high product purity, and low drug
     degradation rate.

L7   ANSWER 2 OF 27  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2004:957193  CAPLUS
DOCUMENT NUMBER:         141:396872
TITLE:                   Coating method for rubber stoppers of blood inspection
                         containers
INVENTOR(S):             Minamoto, Masaaki; Isokawa, Hironobu
PATENT ASSIGNEE(S):      Sekisui Chemical Co., Ltd., Japan
SOURCE:                  Jpn. Kokai Tokkyo Koho, 5 pp.
                         CODEN: JKXXAF
DOCUMENT TYPE:           Patent
LANGUAGE:                Japanese
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004314006	A	20041111	JP 2003-114501	20030418

PRIORITY APPLN. INFO.: JP 2003-114501 20030418

AB Title method involves ultrasonically dispersing water-insol. or hardly soluble coating agents in water and coating the dispersions on substrates. The brominated butyl rubber stoppers were soaked in an aqueous dispersion of silicone oil, ultrasonically vibrated, and vacuum dried to form coated stoppers showing no adherence of blood clot on the stoppers and no hemolysis occurrence.

L7 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:200192 CAPLUS
DOCUMENT NUMBER: 140:205212
TITLE: Rubber stoppers having inorganic coating layers for medical containers
INVENTOR(S): Sudo, Morihiro
PATENT ASSIGNEE(S): Daikyo Gomu Seiko Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004073219	A	20040311	JP 2002-233403	20020809

PRIORITY APPLN. INFO.: JP 2002-233403 20020809

AB The invention relates to a rubber stopper having a flange and legs, wherein the stopper is characterized by having an inorg. coating layer at least at the flange and/or legs, thereby preventing self-sticking during washing and transporting. Butyl rubber stoppers were coated with diamond-like carbon layers to obtain stoppers for vials.

L7 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:590447 CAPLUS
DOCUMENT NUMBER: 137:114512
TITLE: Process for the preparation of composite pharmaceutical formulations containing pefloxacin
INVENTOR(S): Khorakiwala, Habil
PATENT ASSIGNEE(S): Wockhardt Limited, India
SOURCE: Indian, 9 pp.
CODEN: INXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 172680	A1	19931106	IN 1992-BO369	19921124

PRIORITY APPLN. INFO.: IN 1992-BO369 19921124

AB A process for the preparation of a composite pharmaceutical formulation containing pefloxacin suitable for i.v. injection comprises dissolving pefloxacin mesylate dihydrate in water and adding thereto dextrose (anhydrous) at 5-30°. Propylene glycol is added to give a stable preparation, and sodium metabisulfite and/or disodium ethylenediaminetetracetate is added

to give a clear and colorless formulation. Nitrogen is bubbled through the mixture which is then autoclaved at 100-130° to sterilize the mixture and the mixture filled in USP bottles. Pefloxacin mesylate dihydrate 559 mg (= 400 mg pefloxacin) was dissolved in 50 mL water for injection, followed by 5 g dextrose. Propylene glycol (0.5 mL) was added and the solution was stirred for 30 min. It was filtered and filled a in sterilized bottle, plugged with bromobutyl plug and sealed with aluminum seal. The bottle was heated in an autoclave at 121° for 45 min and cooled. The solution was clear with a pH of 3.2 and the temperature of the solution was kept at 10°.

L7 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:577984 CAPLUS
DOCUMENT NUMBER: 137:262439
TITLE: Inorganic carbon analysis by modified pressure-calcimeter method
AUTHOR(S): Sherrod, L. A.; Dunn, G.; Peterson, G. A.; Kolberg, R. L.
CORPORATE SOURCE: Great Plains Systems Res. Unit, USDA-ARS, Fort Collins, CO, 80522, USA
SOURCE: Soil Science Society of America Journal (2002), 66(1), 299-305
CODEN: SSSJD4; ISSN: 0361-5995
PUBLISHER: Soil Science Society of America, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Soil organic C (SOC) analyses using high temperature induction furnace combustion methods have become increasing popular because of advances in instrumentation. Combustion methods, however, also include C from CaCO3 and CaMg(CO3)2 found in calcareous soils. Sep. anal. of the inorg. C (IC) must be done to correct C data from combustion methods. The authors' objective was to develop a efficient and precise IC method by modification of the pressure-calcimeter method. The method was modified by using Wheaton serum bottles (20-mL and 100-mL) sealed with butyl rubber stoppers and aluminum tear-off seals as the reaction vessel and a pressure transducer monitored by a digital voltmeter. The gravimetric IC determination of six soils showed a strong correlation when regressed against IC from the modified pressure-calcimeter method (slope of 0.99, r2 = 0.998). The method detection limit (MDL) was 0.17 g IC kg-1 for the 20-mL serum bottles and the limit of quantification (LOQ) was 0.30 g IC kg-1. The 100-mL serum bottle had a MDL of 0.42 with a LOQ of 2.4 g IC kg-1. When using a 100-mL Wheaton serum bottle as the reaction vessel with a 0.50-g sample size, soils containing up to 120 g IC kg-1, which represent a 100% CaCO3 equivalent, can be analyzed within the V output range of the pressure transducer. Soil organic C determined by subtraction of IC from total C from combustion anal. correlated well with SOC determined by the Walkley-Black.
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:557067 CAPLUS
DOCUMENT NUMBER: 137:244170
TITLE: A rapid and precise technique for measuring δ13C-CO2 and δ18O-CO2 ratios at ambient CO2 concentrations for biological applications and the influence of container type and storage time on the sample isotope ratios

AUTHOR(S): Mortazavi, Behzad; Chanton, Jeffrey P.
CORPORATE SOURCE: Department of Oceanography, Florida State University, Tallahassee, FL, 32306-4320, USA
SOURCE: Rapid Communications in Mass Spectrometry (2002), 16(14), 1398-1403
CODEN: RCMSEF; ISSN: 0951-4198
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A simple modification to a com. available gas chromatograph isotope ratio mass spectrometer (GC/IRMS) allows rapid and precise determination of the stable isotopes (13C and 18O) of CO2 at ambient CO2 concns. A sample loop was inserted downstream of the GC injection port and used to introduce small vols. of air samples into the GC/IRMS. This procedure does not require a cryofocusing step and significantly reduces the anal. time. The precisions for δ13C and δ18O of CO2 at ambient concentration were ±0.164 and ±0.247.permill., resp. This modified GC/IRMS was used to test the effects of storage on the 18O and 13C isotopic ratios of CO2 at ambient concns. in four container types. On average, the change in the 13C-CO2 and 18O-CO2 ratios of samples after one week of storage in glass vials equipped with butyl rubber stoppers (Bellco Glass Inc.) were depleted by 0.12 and by 0.20.permill., resp. The 13C ratios in aluminum canisters (Scotty II and IV, Scott Specialty Gasses) after one month of storage were depleted, on average, by 0.73 and 2.04.permill., resp., while the 18O ratios were depleted by 0.38 and 1.20.permill. for the Scotty II and IV, resp. After a month of storage in electropolished containers (Summa canisters, Biospheric Research Corporation), the 13C-CO2 and 18O-CO2 ratios were depleted, on average, by 0.26 and enriched by 0.30.permill., resp., close to the precision of measurements. Samples were collected at a mature hardwood forest for CO2 concentration determination and isotopic anal. A comparison of CO2 concns. determined with an IR gas analyzer and from sample voltages, determined on the GC/IRMS concurrent with the isotopic anal., indicated that CO2 concns. can be determined reliably with the GC/IRMS technique. The 13C and 18O ratios of nighttime ecosystem-respired CO2, determined from the intercept of Keeling plots, were -26.11.permill. (V-PDB) and -8.81.permill. (V-PDB-CO2), resp.

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:372800 CAPLUS
DOCUMENT NUMBER: 137:190138
TITLE: Operating conditions for the determination of the biochemical acidogenic potential of wastewater
AUTHOR(S): Ruel, S. Martin; Comeau, Y.; Heduit, A.; Deronzier, G.; Ginestet, P.; Audic, J. M.
CORPORATE SOURCE: Cemagref, QHAN Research Unit, Antony, 92163, Fr.
SOURCE: Water Research (2002), 36(9), 2337-2341
CODEN: WATRAG; ISSN: 0043-1354
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The aim of this work was to study the test conditions for the determination of the biochem. acidogenic potential (BAP) of wastewater, which should be useful for predicting the performance of enhanced biol. phosphorus removal (EBPR). Proposed operating conditions for a simple and reproducible BAP test in 250-mL serum bottles (equipped with black butyl rubber stoppers and magnetic bars) are: use of either

frozen or fresh water, no inoculum addition, fermentation carried out in the dark during 15 days, addition of 1mM bromoethanesulfonate (BES) and 2mM barium chloride, stirring speed strong enough to maintain vortex conditions, no pH control, and a controlled temperature of 20°.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:268543 CAPLUS
DOCUMENT NUMBER: 128:322738
ORIGINAL REFERENCE NO.: 128:63963a,63966a
TITLE: Process for the enhancement of the desiccating capacity of polymers
INVENTOR(S): Clapham, David; Nicholson, Roy; Taskis, Charles Bernard
PATENT ASSIGNEE(S): Smithkline Beecham Plc, UK; Clapham, David; Nicholson, Roy; Taskis, Charles Bernard
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817711	A1	19980430	WO 1997-GB2844	19971015
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: GB 1996-21822 A 19961019

AB A process for the enhancement of the desiccating capacity of a desiccant polymer is characterized in that it includes the step of exposing the said desiccant polymer to electromagnetic radiation such as microwave or radiofrequency radiation of a wavelength/frequency that is absorbed by water mols. The polymer is optionally filled with an inorg. desiccant. Typical articles for treatment by this process are brominated butyl rubber stoppers filled with 40 phr each talc and mol. sieve desiccant for pharmaceutical vials.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:737652 CAPLUS
DOCUMENT NUMBER: 128:26899
ORIGINAL REFERENCE NO.: 128:5191a,5194a
TITLE: Pharmaceutical container/closure integrity I: mass spectrometry-based helium leak rate detection for rubber-stoppered glass vials
AUTHOR(S): Kirsch, Lee E.; Nguyen, Lida; Moeckly, Craig S.
CORPORATE SOURCE: Division of Pharmaceutics, College of Pharmacy, The University of Iowa, Iowa City, IA, USA
SOURCE: PDA Journal of Pharmaceutical Science and Technology (1997), 51(5), 187-194
CODEN: JPHTEU; ISSN: 1076-397X
PUBLISHER: PDA, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The development of mass spectrometry-based leak detection for pharmaceutical container integrity was undertaken to provide an alternative to microbial challenge testing. Standard 10-mL vials were

modified to contain pinholes (0.5 to 10 μ) by affixing micropipettes with epoxy into 2-mm vial side wall holes. The absolute leak rate was determined using vials that were sealed in a tracer (helium) environment with butyl rubber stoppers and crimps. Alternatively leak rates were determined using vials that were sealed in room air and exposed to tracer under pressure (charging or bombing). Tracer leak rates were measured with mass spectrometry leak rate detectors. The absolute leak rate was correlated the squared nominal leak radius which suggested that the mode of gas flow through the glass pipet leaks was more turbulent than viscous even at low leak rates typically associated with viscous flow. The min. observed absolute leak rate was about 10-6.6 std cc/s and was likely due to helium permeation through the rubber stoppers. Heat-stressed rubber stoppers did not affect the baseline absolute leak rate. Adsorption of helium tracer to the test unit surfaces was found to confound baseline leak rate measurement reliability but was eliminated as a source of variation by exposing the test units to ambient air for ≥12 h. The absolute leak rate and the leak rate measured after charging were related in a math. predictable way.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:561421 CAPLUS
DOCUMENT NUMBER: 122:293204
ORIGINAL REFERENCE NO.: 122:53431a,53434a
TITLE: Rubber stoppers and their manufacture
INVENTOR(S): Takeuchi, Isao; Takeuchi, Shotaro; Maekawa, Takeshi; Hiraizumi, Juichi
PATENT ASSIGNEE(S): Joso Koshitsu Kuroomu Jugen, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07017548	A	19950120	JP 1993-162350	19930630

PRIORITY APPLN. INFO.: JP 1993-162350 19930630

AB Title stoppers, useful for chemical or medicine containers, contain fluoro rubber-covered (butyl) rubber feet . A Dai-el rubber-coated butyl rubber stopper was prepared

L7 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:561414 CAPLUS
DOCUMENT NUMBER: 122:293199
ORIGINAL REFERENCE NO.: 122:53427a,53430a
TITLE: Rubber stoppers, their manufacture and molds therefor
INVENTOR(S): Takeuchi, Isao; Takeuchi, Shotaro; Maekawa, Takeshi; Hiraizumi, Juichi
PATENT ASSIGNEE(S): Joso Koshitsu Kuroomu Jugen, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07017547	A	19950120	JP 1993-162349	19930630

PRIORITY APPLN. INFO.: JP 1993-162349 19930630

AB Title stoppers, useful for chemical or medicine containers, contain fluoropolymer films covered on butyl rubber feet and up to the boundary parts between the feet and the caps. A Neoflon ETFE EF 0050-coated butyl rubber stopper was prepared

L7 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:216121 CAPLUS
DOCUMENT NUMBER: 116:216121
ORIGINAL REFERENCE NO.: 116:36625a,36628a
TITLE: Removal of unwanted fins of rubber moldings
INVENTOR(S): Kizawa, Masao; Kuramochi, Hiroshi
PATENT ASSIGNEE(S): Sanyo Trading Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04014414	A	19920120	JP 1990-118027	19900508
JP 06069688	B	19940907		

PRIORITY APPLN. INFO.: JP 1990-118027 19900508

AB Unwanted fins of rubber moldings are removed by blasting with powdered melamine, urea, or phenolic resins preferably at 120-200° and 0.5-7 kg/cm2. Thus, side fins (thickness 0.05-0.2 mm) of butyl rubber stoppers were completely removed by blasting powdered melamine resin at 2 kg/cm2 and 150° for 5 s.

L7 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:171280 CAPLUS
DOCUMENT NUMBER: 114:171280
ORIGINAL REFERENCE NO.: 114:28801a,28804a
TITLE: Contamination of injectable powders by volatile hydrocarbons from rubber stoppers. The C13-oligomer and determination of its structure
AUTHOR(S): Jaehnke, Richard W. O.; Linde, Hermann; Mosandl, Armin; Kreuter, Joerg
CORPORATE SOURCE: Inst. Pharm. Technol., Johann Wolfgang Goethe-Univ., Frankfurt/Main, D-6000/11, Germany
SOURCE: Acta Pharmaceutica Technologica (1990), 36(3), 139-48
CODEN: APTEDD; ISSN: 0340-3157
DOCUMENT TYPE: Journal
LANGUAGE: German

AB Combined gas chromatog.-mass spectrometry was employed to detect and isolate volatile diisobutene-isoprene oligomers as the major components of the headspace volatiles from Bu and chlorobutyl rubber vial stoppers, commonly used for storing solid pharmaceuticals. Structure elucidation by 1H- and 13C-NMR revealed the C13 oligomer from butyl rubber as 1-isopropenyl- and that from chlorbutyl rubber as 1-(1-chloromethylethenyl)-2,2,4,4-tetramethylcyclohexane.

L7 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:494540 CAPLUS
DOCUMENT NUMBER: 109:94540
ORIGINAL REFERENCE NO.: 109:15779a,15782a

TITLE: Properties of chlorinated butyl rubber stoppers for plugging of blood containers
AUTHOR(S): Borisenko, I. S.; Berestnev, V. A.; Snegovskaya, S. A.; Shenfil, L. Z.
CORPORATE SOURCE: USSR
SOURCE: Kauchuk i Rezina (1988), (6), 21-3
CODEN: KCRZAE; ISSN: 0022-9466
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB The stickiness of the title stoppers was reduced and their airtightness retention after repeated needle puncture was improved by increasing the levels of S and thiuram D from 0.5 to 1.0 parts. An increased oxidizability of the stoppers, caused by migration of vulcanizing agents and their degradation products in stoppers containing high levels of S and thiuram D, was reduced by increasing the content of chlorinated Bu rubber in Bu rubber stoppers from 20 to 100%. The lowest stickiness was shown by the stoppers from the rubber NT-1068.

L7 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1987:215330 CAPLUS
DOCUMENT NUMBER: 106:215330
ORIGINAL REFERENCE NO.: 106:34949a,34952a
TITLE: Optimization of the composition of butyl rubber stoppers for corking of donated blood
AUTHOR(S): Borisenko, I. S.; Berestnev, V. A.; Shenfil, L. Z.
CORPORATE SOURCE: USSR
SOURCE: Kauchuk i Rezina (1987), (2), 16-18
CODEN: KCRZAE; ISSN: 0022-9466
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB The composition of butyl rubber (BR)-chlorinated butyl rubber (CBR) blends for manufacture of stoppers was optimized using a linear regression model correlating levels of blend ingredients (fillers, vulcanizing agents, plasticizers, etc.) with important stopper properties (self-sealing capacity, self-closing of punctures, oxidizability, etc.). Self-sealing capacity was most affected by the BR-CBR ratio and the type of filler, while adhesion depended mainly on the type of inorg. filler, with lowest adhesion obtained using lithopone or chalk in place of talc. 80:20 BR-CBR blends exhibited the best combination of properties.

L7 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:599678 CAPLUS
DOCUMENT NUMBER: 97:199678
ORIGINAL REFERENCE NO.: 97:33445a,33448a
TITLE: Antiblocking coating of butyl rubber stoppers
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57096837	A	19820616	JP 1980-174060	19801209
PRIORITY APPLN. INFO.:			JP 1980-174060	19801209

AB Antiblocking rubber moldings are prepared by coating the moldings with solns. of siloxanes having OH or OMe groups in mol. chain and containing crosslinking agents. Thus, butyl rubber stoppers were immersed in a 0.01% solution of di-Me siloxane containing 0.5% (based on siloxane) Me2Si(OMe)2 [1112-39-6] crosslinking agent and heated 30 min at 100° to decrease the blocking of the stoppers from 1.2 (before siloxane treatment) to 0.3 kg.

L7 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:21133 CAPLUS
DOCUMENT NUMBER: 96:21133
ORIGINAL REFERENCE NO.: 96:3531a,3534a
TITLE: Rubber stopper for sealing
INVENTOR(S): Eguchi, Tsukasa; Morozumi, Mituharu
PATENT ASSIGNEE(S): Kashima Chemical Co., Ltd., Japan; Asahi Glass Co., Ltd.
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 27028	A1	19810415	EP 1980-303451	19800930
EP 27028	B1	19830615		
R: CH, DE, FR, GB				
JP 56050930	A	19810508	JP 1979-126389	19791002
US 4316941	A	19820223	US 1980-190957	19800926

PRIORITY APPLN. INFO.: JP 1979-126389 A 19791002
AB Rubber stoppers with good lubricity and soiling resistance contain a surface layer of silicone-fluoropolymer elastomer. For example, a solution of 70 g 55:44:2 (molar) tetrafluoroethylene-propene-glycidyl vinyl ether copolymer (number-average d.p. 800) was treated with 30 g Me3SiO(SiMe2O)3000[SiMe(C3H6NH2)O]30SiMe3 for 16 h at room temperature, heated at 77° for 2 h, extracted with CCl4 to remove unreacted silicone, and dried to give a transparent, soft polymer (I). A butyl rubber stopper was dipped into a 5% I solution in 1,1,2-trichlorotrifluoroethane containing a small amount of EtOAc and dried at 150° for 30 min to give a 5 μ coating.

L7 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:605245 CAPLUS
DOCUMENT NUMBER: 95:205245
ORIGINAL REFERENCE NO.: 95:34309a,34312a
TITLE: Stoppers for drug containers
PATENT ASSIGNEE(S): Dow Corning K. K., Japan; Daikyo Gomu Seiko K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56104674	A	19810820	JP 1979-166710	19791221

PRIORITY APPLN. INFO.: JP 1979-166710 A 19791221
AB Butyl rubber or halogenated butyl rubber

stoppers for drug containers are coated with siloxanes having 2-aminoethyl groups to form coatings having good adhesion to the substrates. Thus, a butyl rubber stopper was coated with a 5%-solids solution of reaction products (8 h at reflux temperature) of 10 parts 3-(2-aminoethylamino)propyltrimethoxysilane and 40 parts hydroxy-terminated di-Me siloxane in iso-PrOH and baked 10-12 min at 80-100°. When 10 of those stoppers were shaken with 100 cm3 H2O, the water contained 2-5, 5-10, and 10-20 μ-diameter particles 251, 5, and 0 pieces, resp., compared with 18,820, 1501, and 34, resp., for similar stoppers coated with di-Me siloxane.

L7 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:535825 CAPLUS
DOCUMENT NUMBER: 89:135825
ORIGINAL REFERENCE NO.: 89:20927a,20930a
TITLE: Butyl rubber stoppers for sealing bottles containing blood substitutes and injection solutions
AUTHOR(S): Kosyreva, N. S.; Loginova, L. I.; Shenfil, L. Z.; Bovenko, V. N.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Farm., Moscow, USSR
SOURCE: Farmatsiya (Moscow, Russian Federation) (1978), (4), 49-51
CODEN: FRMTAL; ISSN: 0367-3014
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Newly developed butyl rubber for injections and blood substitutes when left in contact with water for injections or physiol. saline at 120° for 30 min showed no Zn, Pb, Ba, etc., in the extract It was superior to the other rubbers in its oxidation indicators and did not lower the pH of the solns. (contrary to the earlier rubbers). It showed no toxicity, bactericidal properties. and hemolytic action. Storage of various solns. in contact with the stoppers made from this rubber at elevated temps. led to the formation of volatile sulfides which imparted H2S odor to the prepns. However, storage at room temperature for 18 mo gave no such odor. Stickiness associated with these butyl rubbers was reduced by selecting high-mol. weight butyl rubber and siliconization.

L7 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:106555 CAPLUS
DOCUMENT NUMBER: 88:106555
ORIGINAL REFERENCE NO.: 88:16721a,16724a
TITLE: Rubber blend for stoppering containers with drugs, especially antibiotics
INVENTOR(S): Gorczynski, Jan; Wdowiarek, Wlodzimierz; Zarczynski, Antoni; Zupanski, Andrzej; Swierczynska, Wanda; Trzcinska, Maria; Zajac, Mieczyslaw; Wypych, Maria; Kurek, Jan; Wdowiak, Janina
PATENT ASSIGNEE(S): Instytut Przemyslu Gumowego "Stomil", Pol.
SOURCE: Pol., 2 pp.
CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 82752	A5	19751031	PL 1970-141142	19700608
PRIORITY APPLN. INFO.:			PL 1970-141142 A	19700608

AB Rubber blends not evolving harmful volatile products characteristic of

common rubber products were obtained by supplying the rubber mixts. with 0.1-20% of strongly adsorbing materials such as silica gel or activated C. The amount of adsorbent required depended on the amount of stabilizers in the rubber and on the kind and amount of aging inhibitors added. E.g., a blend consisted of butyl rubber 100, ZnO 3, kaolin 30, precipitated silica (sp. surface .apprx.100 m2/g) 20, stearic acid 1, Zn diethyldithiocarbamate 0.8, S 0.5, and activated C 1.0 part.

L7 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:70006 CAPLUS
DOCUMENT NUMBER: 88:70006
ORIGINAL REFERENCE NO.: 88:11027a,11030a
TITLE: Effect of the type of stopper rubber on the toxicological properties of stoppers
AUTHOR(S): Shumskaya, N. I.; Sergeeva, L. G.; Chikishev, Yu. G.
CORPORATE SOURCE: Nauchno-Issled. Inst. Rezin. Lateksnykh Izdelii, Moscow, USSR
SOURCE: Farmatsiya (Moscow, Russian Federation) (1977), 26(6), 66-7
CODEN: FRMTAL; ISSN: 0367-3014
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Antibiotics were stored for unspecified periods in flasks stoppered with 10 com. available butyl rubber stoppers. Tinctures of the antibiotics were administered i.p. to rats and i.v. to mice at 20 mL/kg every other day for 1 mo or s.c. to rabbits once at 0.2 mL. Tests for neuromuscular excitability, blood Hb levels, body weight gain, urinary Cl- excretion, and liver and kidney mass coeffs. showed the only 3 butyl rubber stoppers, 52-369 A, 52-359 B, and IR-119 A were biol. inert and could be recommended for use in medicinal containers.

L7 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1976:413580 CAPLUS
DOCUMENT NUMBER: 85:13580
ORIGINAL REFERENCE NO.: 85:2120h,2121a
TITLE: Interference by butyl rubber stoppers in GLC analysis for theophylline
AUTHOR(S): Chrzanowski, Francis; Niebergall, Paul J.; Mayock, Robert; Taubin, Joel; Sugita, Edwin
CORPORATE SOURCE: Dep. Pharm., Philadelphia Coll. Pharm. Sci., Philadelphia, PA, USA
SOURCE: Journal of Pharmaceutical Sciences (1976), 65(5), 735-6
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
AB During a study of the pharmacokinetics of theophylline (I) [58-55-9] using gas-liquid chromatog., unexpectedly high values occurred in a random manner. The cause of these abnormal values was investigated, and significant interference was observed when blood samples were drawn using evacuated glass tubes sealed with butyl rubber stoppers. In vitro tests using distilled water showed no apparent I levels due to the additives in 3 commonly used tubes. However, when water was allowed to remain in contact with the butyl rubber stoppers for 1 min, an apparent I content of as high as 5.5 μg/ml was observed A contact time of 60 min resulted in apparent I levels of as high as 52.3 μg/ml. It was concluded that a substance leached from the butyl rubber stoppers accounted for the spurious results.

L7 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1970:80090 CAPLUS
DOCUMENT NUMBER: 72:80090
ORIGINAL REFERENCE NO.: 72:14607a,14610a
TITLE: Stoppering of containers in vacuum
AUTHOR(S): Malpas, E. W.
CORPORATE SOURCE: Edwards High Vacuum Ltd., Crawley, UK
SOURCE: Proc. Int. Vac. Congr., 4th (1968), Issue Pt. 2, 759-62
CODEN: 17IGAQ
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Air-leak rates on stoppered vials of the type used in shelf freeze dryers were determined Butyl rubber stoppers treated in various ways (smeared with a thin film of silicone grease, cleaned in detergent, or coated with a thin film of silicone rubber) indicated that the surface texture of the stopper was an important factor in the cause of leakage of air into the vials. Lowest leak rates were achieved with the silicone grease-coated stoppers. When the effect of capping with a standard Al cap was investigated, the capped butyl rubber stoppers had a higher leak rate than the uncapped stoppers, which was attributed to distortion of the stopper on crimping. The leak rate, though variable, depending on individual stoppers and vials, was .apprx.10-5 lusecs after 6 months. Assuming that a 5-ml vial was used with an average free volume of 13.5 ml, a leak rate of this magnitude would give an approx. partial air pressure in the vial of 23 torr after a period of one year.

L7 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1968:408781 CAPLUS
DOCUMENT NUMBER: 69:8781
ORIGINAL REFERENCE NO.: 69:1647a,1650a
TITLE: Method for automatic gas chromatographic head-space analysis
AUTHOR(S): Jentzsch, Dietrich; Krueger, H.; Lebrecht, G.; Dencks, G.; Gut, Jiri
CORPORATE SOURCE: Entwicklungslab. Gas-Chromatogr., Bodenseewerk Perkin-Elmerund Co. G.M.B.H., Ueberlingen, Fed. Rep. Ger.
SOURCE: Fresenius' Zeitschrift fuer Analytische Chemie (1968), 236(1), 96-118
CODEN: ZACFAU; ISSN: 0016-1152
DOCUMENT TYPE: Journal
LANGUAGE: German
AB An electro-pneumatic dosing apparatus for automatic gas-chromatographic head-space anal. is described. The head-space sample is taken with a heated sampler, in order to avoid sample variations due to condensation, and then transferred with carrier gas to the chromatographic column. With nonstandardized absorption peak-height evaluation <0.7% relative standard deviation was obtained and with evaluation of a ratio of 2 peak heights <0.5% relative standard deviation. Quant. anal. applications are demonstrated for blood-alc. measurements by the procedure of G. Machata (1967). Qual. applications are demonstrated by the head-space anal. of various teas and tobaccos and in studying the stability of butyl rubber stoppers in a H atmospheric

L7 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:439581 CAPLUS
DOCUMENT NUMBER: 65:39581

ORIGINAL REFERENCE NO.: 65:7426c-d
TITLE: Washing of rubber stoppers that come into contact with drugs
AUTHOR(S): van Damme, P. A.
CORPORATE SOURCE: "Helvoet" Gummiwerke, Hellevoetsluis, Neth.
SOURCE: Pharmaceutica Acta Helvetiae (1966), 41(5), 315-19
CODEN: PAHEAA; ISSN: 0031-6865
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Three kinds of rubber stoppers, 2 from natural rubber and 1 from a copolymer of isoprene and isobutylene (butyl rubber), were subjected to different pretreatments. Treated and untreated stoppers were autoclaved at 120° for 30 min. in distilled H2O. The H2O exts. were analyzed for turbidity (Coleman nephelometer), pH, organic content (excess acid KMnO4-I), Zn2+ (polarograph). The volatile material (sulfide) was determined quant. according to the method of Krebs and Wetzel, Deut. Apotheker-Ztg. 97(23), 510-11(1957). The maximum and min. values were tabulated.

L7 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:61358 CAPLUS
DOCUMENT NUMBER: 64:61358
ORIGINAL REFERENCE NO.: 64:11530g
TITLE: Suitability of butyl rubber stoppers for closing anaerobic roll culture tubes
AUTHOR(S): Hungate, R. E.; Smith, W.; Clarke, R. T. J.
CORPORATE SOURCE: Univ. of California, Davis
SOURCE: Journal of Bacteriology (1966), 91(2), 908-9
CODEN: JOBAAY; ISSN: 0021-9193
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Diffusion of O2, CO2, or H2 through the rubber of common laboratory stoppers was
eliminated by substitution of stoppers of butyl rubber.

L7 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:134513 CAPLUS
DOCUMENT NUMBER: 55:134513
ORIGINAL REFERENCE NO.: 55:25321f-g
TITLE: Oil-resistant rubber for stoppers
AUTHOR(S): Martynova, V. A.; Mel'nikova, G. K.
SOURCE: Meditsinskaya Promyshlennost SSSR (1961), 15(No. 4), 57-60
CODEN: MPSSA9; ISSN: 0369-1586
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The swelling of butyl, nitrile, and silicone rubber in peach, sunflower, castor, and mineral oil was investigated. I, acid, and saponification nos. of oil after sterilization in the presence of rubber for 20 min. at 120° were determined Alkaline, acid, and reducing substances were extracted by mineral oil from Russian nitrile rubber, but not from Canadian. Use of butyl rubber stoppers is recommended for vegetable oils, and of nitrile rubber for mineral oil.

=> d his

(FILE 'HOME' ENTERED AT 10:36:55 ON 20 OCT 2008)

FILE 'CAPLUS' ENTERED AT 10:37:20 ON 20 OCT 2008
L1 130430 S INJECTIONS

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L2             0 S L1 AND PENTAPREZOLE
L3             0 S L1 AND PENTOPRAZOLE
L4             3 S L1 AND "BUTYL RUBBER STOPPERS"

     FILE 'STNGUIDE' ENTERED AT 10:39:52 ON 20 OCT 2008
L5             0 S "BUTYL RUBBER STOPPERS"
L6             0 S L1 AND STOPPERS

     FILE 'CAPLUS' ENTERED AT 10:41:19 ON 20 OCT 2008
L7            27 S "BUTYL RUBBER STOPPERS"

=> s l7 and 'type 1"
MISMATCHED QUOTE 'AND 'TYPE'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

=> s l7 and "type 1"
       1974983 "TYPE"
        661994 "TYPES"
       2486678 "TYPE"
                 ("TYPE" OR "TYPES")
       9851968 "1"
         83128 "TYPE 1"
                 ("TYPE"(W)"1")
L8             0 L7 AND "TYPE 1"

=> l7 and pharmacopoeia
L7 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l7 and pharmacopoeia
          2971 PHARMACOPOEIA
           260 PHARMACOPOEIAS
          3181 PHARMACOPOEIA
                 (PHARMACOPOEIA OR PHARMACOPOEIAS)
L9             0 L7 AND PHARMACOPOEIA

=> s l7 and fluoro-polymer
        106247 FLUORO
             4 FLUOROS
        106250 FLUORO
                 (FLUORO OR FLUOROS)
       1222727 POLYMER
        971182 POLYMERS
       1634436 POLYMER
                 (POLYMER OR POLYMERS)
          1046 FLUORO-POLYMER
                 (FLUORO(W)POLYMER)
L10            0 L7 AND FLUORO-POLYMER

=> fluoro-polymer
FLUORO-POLYMER IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s fluoro-polymer
        106247 FLUORO
```

```
             4 FLUOROS
        106250 FLUORO
                (FLUORO OR FLUOROS)
       1222727 POLYMER
        971182 POLYMERS
       1634436 POLYMER
                (POLYMER OR POLYMERS)
L11       1046 FLUORO-POLYMER
                (FLUORO(W)POLYMER)

=> l11 and stoppers
L11 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l11 and stoppers
          3806 STOPPERS
L12          2 L11 AND STOPPERS

=> d l12 1-2 ibib ab

L12  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        1998:357591  CAPLUS
DOCUMENT NUMBER:         129:89052
ORIGINAL REFERENCE NO.:  129:18183a,18186a
TITLE:                   Semiconductor devices and fabrication thereof using
                         polymer etching stoppers
INVENTOR(S):             Hasegawa, Toshiaki; Fukazawa, Masanaga
PATENT ASSIGNEE(S):      Sony Corp., Japan
SOURCE:                  Jpn. Kokai Tokkyo Koho, 18 pp.
                         CODEN: JKXXAF
DOCUMENT TYPE:           Patent
LANGUAGE:                Japanese
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
     JP 10150105          A     19980602    JP 1997-114656         19970502
     JP 3997494           B2    20071024
PRIORITY APPLN. INFO.:                      JP 1996-244375      A  19960917
AB   The etching stopper in formation of grooves and contact holes in the title
     devices employs an organic polymers such as polyaryl ether, poly-p-xylene,
     polyimide, and/or polynaphthalene instead of prior-art Si nitride.  The
     dielec. constant for the polymers is lower than that of a silica film.  A
     non-fluoro polymer may be an etching stopper for a
     fluoro-polymer film.  The arrangement gives wire-buried
     interlayer insulator films a low dielec. constant

L12  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        1995:360695  CAPLUS
DOCUMENT NUMBER:         122:163128
ORIGINAL REFERENCE NO.:  122:30043a,30046a
TITLE:                   Crosslinked fluoropolymer film laminates with rubbers
                         and their use for electrolytic capacitors and bottle
                         stoppers
INVENTOR(S):             Murakami, Tomoyuki
PATENT ASSIGNEE(S):      Nitto Denko Corp, Japan
SOURCE:                  Jpn. Kokai Tokkyo Koho, 4 pp.
                         CODEN: JKXXAF
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DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312486	A	19941108	JP 1993-102591	19930428

PRIORITY APPLN. INFO.: JP 1993-102591 19930428

AB Exposing an ethylene-tetrafluoroethylene copolymer 100-μm thick film to 5-Mrad irradiation for crosslinking, applying 13.56 MHz voltage in Ar gas at 0.1 torr and 2 W/cm2 for 3 s for sputter etching treatment, applying Metaloc G (primer), bonding to a 2-mm-thick plate composed of 100 parts acrylonitrile-butadiene rubber and 2 parts Perkadox (vulcanizing agent), and press-heating at 150° for 30 min gave a film for a packaging showing γ-butyrolactone permeability 5.2 + 10-3 vs. 1.6 + 10-2 for a test piece without crosslinking by irradiation

=> d his

(FILE 'HOME' ENTERED AT 10:36:55 ON 20 OCT 2008)

FILE 'CAPLUS' ENTERED AT 10:37:20 ON 20 OCT 2008
L1 130430 S INJECTIONS
L2 0 S L1 AND PENTAPREZOLE
L3 0 S L1 AND PENTOPRAZOLE
L4 3 S L1 AND "BUTYL RUBBER STOPPERS"

FILE 'STNGUIDE' ENTERED AT 10:39:52 ON 20 OCT 2008
L5 0 S "BUTYL RUBBER STOPPERS"
L6 0 S L1 AND STOPPERS

FILE 'CAPLUS' ENTERED AT 10:41:19 ON 20 OCT 2008
L7 27 S "BUTYL RUBBER STOPPERS"
L8 0 S L7 AND "TYPE 1"
L9 0 S L7 AND PHARMACOPOEIA
L10 0 S L7 AND FLUORO-POLYMER
L11 1046 S FLUORO-POLYMER
L12 2 S L11 AND STOPPERS